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NOTICE OF ALLOWANCE AND FEE(S) DUE

4372 7590 02/04/2011
ARENT FOX LLP
1050 CONNECTICUT AVENUE, N.W.
SUITE 400

WASHINGTON DC 20036

EXAMINER
HOANG, SON T
ART UNIT PAPER NUMBER
2165

DATE MAILED: 02/04/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,386	05/24/2006	Timo Surakka	108800-00007	4809

TITLE OF INVENTION: PROCESSING DATA RECORDS FOR FINDING COUNTERPARTS IN A REFERENCE DATA SET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/04/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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	s SMALL ENTITY state	is. See 37 CFF		☐ b. Applicant is no	long	er claiming SMAL	LENT	TTY status. Sec 37 Cl	R 1.27(g)(2).	
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not tes Patent and	be accepte Trademark	d from anyone other the Office.	han th	e applicant; a regi	stered a	ttorney or agent; or th	e assignee or o	other party in
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	CTICUT	AVENUE, N.W.		ART UNIT	PAPER NUMBER		
SUITE 400 WASHINGTO	N, DC 2	20036		2165 DATE MAILED: 02/04/2011			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 37 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 37 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/559,386	SURAKKA ET AL.
Examiner	Art Unit
SON T. HOANG	2165

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 11/23/2010.
- The allowed claim(s) is/are 1-5, 7-12, 14-26, 28-29, and 31 (renumbered as 1-27).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) 🖾 All b) ☐ Some* c) ☐ None of the:
 - Certified copies of the priority documents have been received.
 - 2.

 Certified copies of the priority documents have been received in Application No. ____
 - 3.
 ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

/S. T. H./

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- ☐ Examiner's Comment Regarding Requirement for Deposit
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
 - of Biological Material
- Notice of Informal Patent Application
- Interview Summary (PTO-413). Paper No./Mail Date
- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other . /Neveen Abel-Jalil/

Supervisory Patent Examiner, Art Unit 2165

U.S. Patent and Trademark Office

Examiner, Art Unit 2165

Application/Control Number: 10/559,386

Art Unit: 2165

DETAILED ACTION

Status

This communication is in response to the amendment filed on November 23, 2010.

Claims 1-5, 7-12, 14-26, 28-29, and 31 are allowed in this Office action (renumbered as claims 1-27).

Reasons for Allowance

The following is an examiner's statement of reasons for allowance of claims 1-5, 7-12, 14-26, 28-29, and 31:

The prior arts of record fail to teach the limitations of:

"automatically updating a synonym set representing known writing variations for the identifier in a computer readable database and referencing to respective entries in the reference data set by adding the value of the data field to the synonym set as a member referring to the accepted synonym candidate in the reference data set without intervention of a user before searching for a counterpart for the input customer data record, and

checking the input customer data record by searching for the counterpart for the input customer data record in the reference data set by comparing the value of the data field to the updated synonym set in the computer readable database after the step of determining if the predetermined synonym acceptance criterion is fulfilled" (independent claims 1, 21, 24-26, 28-29, and 31).

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Claims 2-5, 7-12, 14-20, and 22-23 are also allowed based on their dependencies on claims 1, and 21 respectively.

Summary of Related Prior Arts

The prior arts on record are summarized as follows:

- i) <u>Borkovsky et al.</u> (*Pat. No. US 7,440,941*) teaches suggesting an alternative spelling for a search query when a request to search for files that match the search query is received. The alternative spelling is selected based on a set of factors including how frequently the alternative spelling occurs in a plurality of files and how frequently the alternative spelling occurs in one or more previously received requests to search for files.
- ii) <u>Rogson</u> (*Pub. No. US 2002/0010726*) teaches parsing a userentered word in a document to determine if the word is misspelled using a static update list to see if the misspelled word has an automatic correction. If the word is not in the static update list and the user corrects the misspelling, the misspelled word and the correction are both captured in a list. If the user corrects the misspelling a sufficient number of times, the static update list can itself be dynamically updated to recognize the correction regularly entered by the user.
- iii) <u>Toner et al.</u> (*Pub. No. US 2004/0024760*) teaches transformation, normalization and correlation techniques that are effective for matching names of foreign origin that may be spelt in any number of ways. The main technique is to convert both strings to be matched into a representation of their original

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language, i.e., transform them into idealized (normalized) versions of themselves based on their true spelling in their original, native language.

- iv) <u>Bellany et al.</u> (*Pub. No. US 2002/0078024*) teaches retrieving a desired postal address from a plurality of postal addresses by receiving input data having input terms for finding the desired postal address from a first database of postal addresses where each postal address is formed of a plurality of postal address elements, searching a dictionary for entries in the dictionary corresponding to the input terms, determining that each entry in the dictionary that corresponds to the input terms corresponds to postal address elements of one or more postal addresses in the first database, and outputting data representing the desired postal address.
- v) Murakami et al. (*Pub. No. US 2004/0181759*) acquiring a set of candidate synonyms similar to an input word for each writer from data for each writer, and acquiring a set of candidate synonyms similar to the input word from a collective data. A generated candidate synonym set is inputted to a candidate synonym determination device to evaluate the candidate synonyms of the collective data and matching words are outputted as a result of an evaluation process.

Any comments considered necessary by the Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/559,386

Art Unit: 2165

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Son T. Hoang whose telephone number is (571) 270-1752. The Examiner can normally be reached on Monday – Friday (7:00 AM – 4:00 PM).

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Neveen Abel-Jalil can be reached on (571) 272-4074. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. T. H./ Examiner, Art Unit 2165 January 25, 2011

/Neveen Abel-Jalil/ Supervisory Patent Examiner, Art Unit 2165